AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) A method for resolving an addressing conflict between a first processor in a first network and a second processor in a second network, the method comprising:

detecting the addressing conflict between a first address of the first processor and a second address of the second processor, prior to receiving packets from the processors;

associating an identifier a tunnel ID with the detected addressing conflict; receiving from the first processor one or more packets forming a tunnel; removing from the one or more packets information about the tunnel, the removed tunnel information including a virtual address of the tunnel;

determining that the one or more packets are associated with the detected addressing conflict by determining that the removed virtual address corresponds to the identifier tunnel ID associated with the detected addressing conflict;

determining a translated address based on the removed virtual address; and forwarding the one or more packets based on the translated address.

2. (Previously Presented) The method of claim 1, wherein said step of detecting further comprises the step of:

detecting that the first address is the same as the second address.

3. (Previously Presented) The method of claim 1, wherein said step of detecting further comprises the step of:

detecting that the first address is the same as the second address based on information about the first processor and the tunnel.

4. (Previously Presented) The method of claim 1, wherein said step of removing further comprises the step of:

removing information indicating the virtual address, the virtual address uniquely identifying the tunnel.

5. (Previously Presented) The method of claim 1, wherein said step of removing further comprises the step of:

removing information indicating a virtual IP address of the tunnel.

6. (Currently Amended) The method of claim 1, wherein said step of determining that the one or more packets are associated with the detected addressing conflict further comprises the step of:

determining, based on the removed virtual address and the identifier tunnel ID, that the first address in the one or more packets causes the addressing conflict.

7. (Original) The method of claim 1, wherein said step of determining the translated address further comprises the step of:

determining the translated address based on the first address.

8. (Original) The method of claim 1, wherein said step of determining the translated address further comprises the step of:

mapping the first address into the translated address, such that the one or more packets are forwarded on a network other than the first and second networks without the addressing conflict.

9. (Original) The method of claim 1, wherein said step of determining the translated address further comprises the step of:

mapping the first address into the translated address, such that the one or more packets are forwarded on the second network without the addressing conflict.

10. (Original) The method of claim 1, wherein said step of determining the translated address further comprises the step of:

mapping the first address into the translated address, such that the one or more packets are forwarded on the first network without the addressing conflict.

- 11. (Original) The method of claim 10, further comprising the step of: mapping, at a gateway, the first address into the translated address.
- 12. (Original) The method of claim 1, wherein said step of detecting further comprises the step of:

detecting the addressing conflict at a gateway interfacing a network other than the first and second networks.

13. (Original) The method of claim 1, wherein said step of detecting further comprises the step of:

detecting the addressing conflict at a gateway interfacing the second network.

14. (Original) The method of claim 1, wherein said step of detecting further comprises the step of:

detecting the addressing conflict at a gateway interfacing the first network.

15. (Currently Amended) An apparatus comprising:

a memory including code that detects an addressing conflict between a first address of a first processor in a first network and a second address of a second processor in a second network prior to receiving packets from the processors, associates an identifier a tunnel ID with the detected addressing conflict, receives from the first processor one or more packets forming a tunnel, removes from the one or more packets a virtual address of the tunnel, determines that the one or more packets are associated with the detected addressing conflict by determining that the removed virtual address corresponds to the identifier tunnel ID associated with the detected addressing conflict, determines a translated address based on the removed virtual address, and forwards the one or more packets based on the translated address; and

at least one processor that executes the code.

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16. (Previously Presented) The apparatus of claim 15, wherein said code

detects that the first address is the same as the second address.

17. (Previously Presented) The apparatus of claim 15, wherein said code

detects that the first address is the same as the second address based on information

about the first processor and the tunnel.

18. (Previously Presented) The apparatus of claim 15, wherein said code

removes the virtual address, the virtual address uniquely identifying the tunnel.

19. (Previously Presented) The apparatus of claim 15, wherein said code

removes information including a virtual IP address of the tunnel.

20. (Previously Presented) The apparatus of claim 15, wherein said code

determines, based on the removed virtual address, that the first address in the one or

more packets causes the addressing conflict.

21. (Original) The apparatus of claim 15, wherein said code determines the

translated address based on the first address.

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22. (Original) The apparatus of claim 15, wherein said code maps the first

address into the translated address, such that the one or more packets are forwarded

on a network other than the first and second networks without the addressing conflict.

23. (Original) The apparatus of claim 15, wherein said code maps the first

address into the translated address, such that the one or more packets are forwarded to

the second network without the addressing conflict.

24. (Original) The apparatus of claim 15, wherein said code maps the first

address into the translated address, such that the one or more packets are forwarded to

the first network without the addressing conflict.

25. (Original) The apparatus of claim 15, further comprising:

code that maps, at a gateway, the first address into the translated address.

26. (Currently Amended) A computer-implemented system, comprising:

means for detecting an addressing conflict between a first address of a first

processor on a first network and a second address of a second processor on a second

network, prior to receiving packets from the processors;

means for associating an identifier-a tunnel ID with the detected addressing

conflict;

means for receiving from the first processor one or more packets forming a

tunnel;

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means for removing from the one or more packets information about the tunnel, the removed tunnel information including a virtual address of the tunnel;

means for determining that the one or more packets are associated with the detected addressing conflict by determining that the removed virtual address corresponds to the identifier tunnel ID associated with the detected addressing conflict;

means for determining a translated address based on the removed virtual address; and

means for forwarding the one or more packets based on the translated address.

- 27. (Previously Presented) The system of claim 26, wherein said means for detecting detects that the first address is the same as the second address.
- 28. (Previously Presented) The system of claim 26, wherein said means for detecting detects that the first address is the same as the second address based on information about the first processor and the tunnel.
- 29. (Previously Presented) The system of claim 26, wherein said means for removing removes from the one or more packets the virtual address, the virtual address uniquely identifying the tunnel.
- 30. (Previously Presented) The system of claim 26, wherein said means for removing removes from the one or more packets information indicating a virtual IP address of the tunnel.

- 31. (Previously Presented) A network, comprising:
- a first processor having a first address on a first network;
- a second processor having a second address on a second network; and
- a processor other than the first and second processors that detects a conflict between the first address and the second address prior to communication between the first processor and the second network and resolves the conflict based on address translation information retrieved using a virtual address of a tunnel established between the other processor and the first network, such that communication between the first processor and the second network is enabled.
- 32. (Previously Presented) The network of claim 31, wherein the other processor determines a translated address based on the virtual address of the tunnel and forwards one or more packets to the second network based on the translated address.
- 33. (Original) The network of claim 31, wherein the other processor functions as a gateway.
- 34. (Previously Presented) The network of claim 31, wherein the other processor resolves the conflict based on another virtual address of another tunnel established between the other processor and the second network.

- 35. (Original) The network of claim 31, wherein the other processor resolves the conflict such that communication between the second processor and first network is enabled.
- 36. (Previously Presented) The method of claim 1, further comprising the step of:

 forming the tunnel, such that a first protocol encapsulates a second protocol.
- 37. (Previously Presented) The method of claim 36, further comprising the step of:

using the first protocol as an Internet Protocol (IP).

38. (Previously Presented) The method of claim 36, further comprising the step of:

using the second protocol as an Internet Protocol (IP).

39. (Previously Presented) The method of claim 38, further comprising the step of:

defining the second protocol to further include an encryption protocol.

40. (Previously Presented) The method of claim 1, further comprising the step of:

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removing from the one or more packets the virtual address of the tunnel, the

virtual address uniquely identifying the tunnel and being routable on a virtual network.

41. (Previously Presented) The method of claim 1, wherein said determining

the translated address further comprises the step of:

determining the translated address, such that the addressing conflict is resolved

with respect to the first network without regard to a possible addressing conflict on a

network other than the first network.

42. (Previously Presented) The method of claim 1, wherein said determining

the translated address further comprises the step of:

determining the translated address, such that the addressing conflict is resolved

between the first and second networks without regard to a possible addressing conflict

on a network other than the first and second networks.

43. (Previously Presented) The method of claim 1, wherein said determining

the translated address further comprises the step of:

determining the translated address, such that the addressing conflict is resolved

without consent of another processor.

44. (Canceled)

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- 45. (Previously Presented) The apparatus of claim 15, further comprising: code that forms the tunnel, such that a first protocol encapsulates a second protocol.
 - 46. (Previously Presented) The apparatus of claim 45, further comprising: code that uses the first protocol as an Internet Protocol (IP).
 - 47. (Previously Presented) The apparatus of claim 45, further comprising: code that uses the second protocol as an Internet Protocol (IP).
 - 48. (Previously Presented) The apparatus of claim 47, further comprising: code that uses the second protocol to further include an encryption protocol.
- 49. (Previously Presented) The apparatus of claim 15, further comprising: code that removes from the one or more packets the virtual address of the tunnel, the virtual address being routable on a virtual network.
- 50. (Previously Presented) The apparatus of claim 15, wherein said code that determines the translated address further comprises:

code that determines the translated address, such that the addressing conflict is resolved with respect to the first network without regard to a possible addressing conflict on a network other than the first network.

51. (Previously Presented) The apparatus of claim 15, wherein said code that determines the translated address further comprises:

code that determines the translated address, such that the addressing conflict is resolved between the first and second networks without regard to possible addressing conflicts on a network other than the first and second networks.

52. (Previously Presented) The apparatus of claim 15, wherein said code that determines the translated address further comprises:

code that determines the translated address, such that the addressing conflict is resolved without consent of a first gateway coupled to the first network.

53. (Previously Presented) The apparatus of claim 52, wherein said code that determines the translated address further comprises:

code that determines the translated address, such that the addressing conflict is resolved without consent of a second gateway coupled to the second network.

54. (Previously Presented) The network of claim 31, wherein the other processor determines the translated address without regard to the first and second networks, such that the addressing conflict is resolved locally on a network other than the first and second networks.

- 55. (Previously Presented) The network of claim 31, wherein the other processor determines the translated address, such that the addressing conflict is resolved on a network other than the first and second networks.
- 56. (Currently Amended) The method of claim 1, further comprising storing the translated address with the identifier tunnel ID associated with the detected addressing conflict; and

wherein determining a translated address based on the removed virtual address comprises retrieving, based on the identifier tunnel ID, information indicating the translated address.